

#9

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/766,273

DATE: 06/19/2001

TIME: 12:02:05

Input Set : A:\22564-0707SL.txt

Output Set: N:\CRF3\06192001\I766273.raw

ENTERED

4 <110> APPLICANT: Quantum Dot Corporation
5 The Government of the United States of America, as represented by the
6 Secretary, Department of Health and Human Services
7 Bittner, Michael
8 Wong, Edith Y.
9 Bruchez, Marcel P. Jr.
12 <120> TITLE OF INVENTION: OLIGONUCLEOTIDE-TAGGED SEMICONDUCTOR
13 NANOCRYSTALS FOR MICROARRAY AND FLUORESCENCE IN SITU
14 HYBRIDIZATION
16 <130> FILE REFERENCE: 22564-0707
18 <140> CURRENT APPLICATION NUMBER: US 09/766,273
C--> 19 <141> CURRENT FILING DATE: 2001-06-01
21 <150> PRIOR APPLICATION NUMBER: US 60/176,793
22 <151> PRIOR FILING DATE: 2000-01-18
24 <160> NUMBER OF SEQ ID NOS: 15
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 70
30 <212> TYPE: DNA
31 <213> ORGANISM: Homo sapiens
33 <400> SEQUENCE: 1
34 ttgagcagtg ggtcactct gaagacctgc agtccctcct gcttaggggc gctaagtctg 60
35 tttcggtgaa 70
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 70
39 <212> TYPE: DNA
40 <213> ORGANISM: Homo sapiens
42 <400> SEQUENCE: 2
43 ccgcgccgac aaacagaacc tggaggccat tctgcacagc ctgcccgaga actgtgccag 60
44 ctggcagtga 70
46 <210> SEQ ID NO: 3
47 <211> LENGTH: 70
48 <212> TYPE: DNA
49 <213> ORGANISM: Homo sapiens
51 <400> SEQUENCE: 3
52 gctcccagaa tttcagcttc agcttaactg acagatgtta aagctttctg gttagattgt 60
53 tttcacttgg 70
55 <210> SEQ ID NO: 4
56 <211> LENGTH: 70
57 <212> TYPE: DNA
58 <213> ORGANISM: Homo sapiens
60 <400> SEQUENCE: 4
61 ccacctgtcc ctctgggct gctggattgt ctcgttttcc tgccaaataa acaggatcag 60
62 cgctttaaaa 70
64 <210> SEQ ID NO: 5
65 <211> LENGTH: 50
66 <212> TYPE: DNA

RAW SEQUENCE LISTING

DATE: 06/19/2001

PATENT APPLICATION: US/09/766,273

TIME: 12:02:05

Input Set : A:\22564-0707SL.txt

Output Set: N:\CRF3\06192001\I766273.raw

```

67 <213> ORGANISM: Homo sapiens
69 <400> SEQUENCE: 5
70 ttcaccgaaa cagcattagc gaccctaagc aggagggact gcaggtcttc      50
72 <210> SEQ ID NO: 6
73 <211> LENGTH: 50
74 <212> TYPE: DNA
75 <213> ORGANISM: Homo sapiens
77 <400> SEQUENCE: 6
78 tcactgccag ctggcacagt tctcgggcag gctgtgcaga atggcctcca      50
80 <210> SEQ ID NO: 7
81 <211> LENGTH: 50
82 <212> TYPE: DNA
83 <213> ORGANISM: Homo sapiens
85 <400> SEQUENCE: 7
86 ccaagtgaaa acaatctaac cagaaagctt taacatctgt cagttaagct      50
88 <210> SEQ ID NO: 8
89 <211> LENGTH: 50
90 <212> TYPE: DNA
91 <213> ORGANISM: Homo sapiens
93 <400> SEQUENCE: 8
94 ttttaaagcg ctgatcctgt ttatttggca ggaaaacgag acaatccagc      50
96 <210> SEQ ID NO: 9
97 <211> LENGTH: 69
98 <212> TYPE: DNA
99 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Complement oligo with generic tag
104 <400> SEQUENCE: 9
105 ggcgtggcgg ggaaagcatt tcaccgaaac agcatttagcg accctaagca ggagggactg      60
106 caggtcttc      69
108 <210> SEQ ID NO: 10
109 <211> LENGTH: 63
110 <212> TYPE: DNA
111 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Complement oligo with generic tag
116 <400> SEQUENCE: 10
117 gggcggcgac cttttcaccg aaacagcatt agcgacccta agcaggaggg actgcaggtc      60
118 ttc      63
120 <210> SEQ ID NO: 11
121 <211> LENGTH: 63
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Complement oligo with generic tag
128 <400> SEQUENCE: 11
129 gggcggcgac ctttcactgc cagctggcac agttctcggg caggctgtgc agaatggcct      60
130 cca      63
132 <210> SEQ ID NO: 12

```

RAW SEQUENCE LISTING

DATE: 06/19/2001

PATENT APPLICATION: US/09/766,273

TIME: 12:02:05

Input Set : A:\22564-0707SL.txt

Output Set: N:\CRF3\06192001\I766273.raw

```

133 <211> LENGTH: 69
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: Complement oligo with generic tag
140 <400> SEQUENCE: 12
141 ggcgtggcgg ggaaagcatt cactgccagc tggcacagtt ctcgggcagg ctgtgcagaa      60
142 tggcctcca                                                                69
144 <210> SEQ ID NO: 13
145 <211> LENGTH: 29
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Oligo for attachment to SCNCs
152 <400> SEQUENCE: 13
153 ctggaacaac actcacaagg tcgccgccc                                          29
155 <210> SEQ ID NO: 14
156 <211> LENGTH: 36
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: Oligo for attachment to SCNCs
163 <400> SEQUENCE: 14
164 ctggaacaac actcacaatg ctttccccgc cacgcc                                  36
166 <210> SEQ ID NO: 15
167 <211> LENGTH: 41
168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Reverse transcription primer including
173     bacteriophage 186 cos site
175 <221> NAME/KEY: misc_feature
176 <222> LOCATION: (1)...(41)
177 <223> OTHER INFORMATION: n = A,T,C or G
179 <400> SEQUENCE: 15
W--> 180 ggcgtggcgg ggaaagcatt tttttttttt tttttttttv n                      41

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/766,273

DATE: 06/19/2001

TIME: 12:02:06

Input Set : A:\22564-0707SL.txt

Output Set: N:\CRF3\06192001\I766273.raw

L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15